Femtocells: Opportunities and Challenges for Business and Technology

By Stuart Carlaw, Andrea Giustina, Ravi Rai Bhat, V. Srinivasa Rao, Rasa Siegberg

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Femtocells are low-power wireless access points used in the home and office. They operate in licensed spectrum to connect standard mobile phones (WCDMA, LTE, WiMAX, CDMA and GSM) and other mobile devices to a mobile operator's network via standard broadband internet connections. This technology is of high interest for mobile operators and for millions of users who will benefit from enhanced access to mobile broadband services. *Femtocells* outlines how wireless access points can be used by mobile operators to provide high-speed wireless access, enhancing coverage and capacity and delivering entirely new services, while maximising the benefits of licensed spectrum. The book examines the market, exploring commercial and technical factors which are critical in the initial deployment and long-term success of femtocells. Business, standards and regulatory aspects are also considered to provide a complete but concise overview.

- One of the first authoritative texts to concentrate on femtocells
- Written by expert authors from industry including leading analysts, femtocell and system vendors
- Covers both technology and business aspects in detail
- Provides overview of the relevant standards across WCDMA, LTE, CDMA, WiMAX and GSM air interfaces

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Editorial Review

From the Inside Flap

From the Back Cover

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About the Author
Prof. Simon Saunders, PhD, CEng, FIET
Founding Chairman of the Femto Forum, Independent Wireless Technologist and Visiting Professor, University of Surrey. Professor Simon Saunders is an independent specialist in the technology of wireless communications, with a technical and commercial background derived from senior appointments in both industry (including Philips and Motorola) and academia (University of Surrey). He is an author of over 150 articles, books and book chapters. He has acted as a consultant to companies including BAA, BBC, O2, Ofcom, BT, ntl, Mitsubishi and British Land and was CTO of Red-M and CEO of Cellular Design Services Ltd. Simon speaks at and chairs a wide range of international conferences and training courses and has invented several novel wireless technologies. Particular expertise includes in-building wireless systems, radiowave propagation prediction, smart antenna design and mobile system analysis. He currently serves on technical advisory boards of several companies. He is the founding chairman of the Femto Forum, a Visiting Professor to the University of Surrey and is amember of the Ofcom Spectrum Advisory Board.
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Stuart Carlaw, Vice President Mobile Wireless – ABI Research. StuartCarlawholds a program management role for ABI Research's Wireless Practice, which includes coordinating and planning its wireless infrastructure, mobile operator, wireless handset semiconductor, short range wireless connectivity, fixed mobile convergence, femtocell, mobile device and business mobility research services. He is also lead analyst for the femtocell, fixed-mobile convergence and mobile devices research services.
He brings to the task a deep understanding of the critical issues and technologies, stemming from his immersion in these markets for over a decade as both an analyst and an engineer.

Prior to joining ABI Research, Stuart was a Telecommunications Technician in the British Army, and then Senior Analyst and laterWireless Research Director at IMS Research. At IMS he was the primary Bluetooth analyst, and responsible for all short range wireless research.

He has been quoted and published in a variety of industry and general media, including BBC TV, BBC Radio 5, the *Financial Times*, the *Wall Street Journal*, *EE Times* and many more, and has spoken, moderated or participated in industry events including WiMAX World, TETRA WorldCongress, Bluetooth SIG AHM, PTTWorldCongress and Freescale Technology Forum.

Stuart earned a BSc (Honours) in Physical Sciences and Business Management from De Montfort University.

Dr Andrea Giustina, Vice President, Systems Engineering – Ubiquisys Ltd.

Dr Giustina joined Ubiquisys in early 2006 where he heads the definition of Femtocell offers and system design. With over 15 years of experience in telecoms, he previously held management positions in Lucent Technologies in Systems Engineering and Professional Services for GPRS, WCDMA and IMS Services and was a Researcher for Telecom Italia.

Dr Giustina holds a Doctor's degree in Electronics Engineering and a Telecommunications Master, both from Politecnico di Torino, and an MBA from Bath University.

Ravi Raj Bhat, Ravi Raj Bhat is an Engineering Director at Continuous Computing, managing its software R&D organisation. Ravi has published over 25 technical papers and articles in technical magazines including *IEEE Communication* and *Electronic Design*. Ravi had also co-authored a book titled, *Java in Telecommunication*, published by John Wiley & Sons in September 2001. Ravi holds an MBA from the Anderson School of Management at University of California, Los Angeles and BTech in Computer Engineering from National Institute of Technology, Karnataka.

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Mr Srinivasa holds an MTech in Telecommunication Systems & Engineering from the Indian Institute of Technology, Kharagpur.

Rasa Siegberg, Senior Systems Engineer, Mobile & Networking Security Solutions, SafeNet Inc.

Rasa Siegberg joined SafeNet in 2005 as Systems Engineer responsible for technical presales and sales support, and various aspects of product management and marketing for the company's portfolio of embedded software security solutions.

Currently Rasa provides strategic guidance; sales, product management, and marketing support for all embedded hardware and software security products at SafeNet with a special focus on new technologies within the telecom/mobile industry.

He has more than 10 years of experience in telecom, semiconductor, networking and embedded security industries. Prior to joining SafeNet, Rasa worked as a Senior Consultant at Conformiq Software, and as a Product Manager at SSH Communications Security Ltd. He received his MA from Helsinki University, Finland.

Users Review

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Peter Schmidt:

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Femtocells: Opportunities and Challenges for Business and Technology can be one of your beginner books that are good idea. All of us recommend that straight away because this e-book has good vocabulary that can increase your knowledge in terminology, easy to understand, bit entertaining but nonetheless delivering the information. The article writer giving his/her effort to put every word into delight arrangement in writing Femtocells: Opportunities and Challenges for Business and Technology although doesn't forget the main stage, giving the reader the hottest in addition to based confirm resource information that maybe you can be one among it. This great information could drawn you into new stage of crucial imagining.

Douglas Johnson:

The book untitled Femtocells: Opportunities and Challenges for Business and Technology contain a lot of information on this. The writer explains the girl idea with easy means. The language is very clear and understandable all the people, so do not worry, you can easy to read the item. The book was compiled by famous author. The author will bring you in the new era of literary works. You can actually read this book because you can please read on your smart phone, or gadget, so you can read the book with anywhere and anytime. In a situation you wish to purchase the e-book, you can available their official web-site and also order it. Have a nice go through.

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